Clean Set of Claims

18. The method of synchronizing access from a plurality of agents to shared memory according to claim 17, further comprising:

regenerating in said second agent said single memory access clock signal.

19. The method of synchronizing access from a plurality of agents to shared memory according to claim 17, wherein:

said first agent provides said single memory access clock signal.

22. Apparatus for synchronizing access from a plurality of agents to shared memory, said apparatus comprising:

means for providing a single memory access clock signal;

means for firstly accessing said shared memory from a first agent based on said single memory access clock signal;

means for secondly accessing said shared memory from a second agent based on said single memory access clock signal;

wherein said means for second accessing accesses said shared memory without a wait state after said means for firstly accessing said shared memory accesses said shared memory.

23. Apparatus for partitioning a shared memory, said apparatus comprising:

means for setting a configuration register to partition said shared memory into a first plurality of memory banks and a second plurality of memory banks;

means for accessing said first plurality of memory banks from a first agent;

means for accessing said second plurality of memory banks from a second agent that receives a clock signal representation of said first agent's clock signal and lacks a dedicated clock; and

means for re-partitioning said shared memory on-the-fly.

Version with Markings to Show Changes Made

18. (Twice Amended) The method of synchronizing access from a plurality of agents to shared memory according to claim 17, further comprising:

regenerating in said second agent said <u>single</u> [first] memory access clock signal.

19. (Twice Amended) The method of synchronizing access from a plurality of agents to shared memory according to claim 17, wherein:

said first agent provides said <u>single</u> [first] memory access clock signal.

22. (Amended) Apparatus for synchronizing access from a plurality of agents to shared memory, said apparatus comprising:

means for providing a <u>single</u> memory access clock signal;

means for firstly accessing said shared memory from a first agent based on said <u>single</u> memory access clock signal;

means for secondly accessing said shared memory from a second agent based on said <u>single</u> memory access clock signal;

wherein said means for second accessing accesses said shared memory without a wait state after said means for firstly accessing said shared memory accesses said shared memory.

23. (Amended) Apparatus for partitioning a shared memory, said apparatus comprising:

means for setting a configuration register to partition said shared memory into a first plurality of memory banks and a second plurality of memory banks;

means for accessing said first plurality of memory banks from a first agent;

means for accessing said second plurality of memory banks from a second agent <u>that receives a clock signal representation of said first agent's clock signal and lacks a dedicated clock</u>; and

means for re-partitioning said shared memory on-the-fly.